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October 3, 1958

Memo. to [redacted]

from [redacted]

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Subject: Redesign of Task III

As a result of our preliminary investigation with respect to the proposed design changes listed below, we have been able to divide these items into two categories, namely those items which can readily be adapted into the existing design, and those items which are doubtful.

With regard to the latter, it will take a certain amount of study before a more concrete conclusion can be reached as to the feasibility of making these changes. We hope that such an evaluation can be accomplished in about a week.

At this time, we will also be in a position to estimate the costs involved in carrying out these changes.

Items which can be incorporated with relative certainty:

1. Replace Eyemo lens mount to Leica mount and reduce thickness of front end to accommodate lenses.
2. Retain but simplify auto exposure system.
3. Relocate electronic amplifier in rear of body for easy replacement using sealed components.
4. Remove timer and burst control.
5. Reflex adaptability for 135MM lenses and longer, assuming that these are provided with screw rings.
6. Design of "piggy" back battery assembly for 100, 400, 1000 ft. capacity system.
7. Noise reduction of shutter
8. Tamper proof controls
9. Shutter range low 1/5 sec. to max. possible.
10. Adapter mount for external K-100 sensor, and add receptacle for sensor.

(Cont'd.)

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11. Provide for same except (11) for use of hand switch control (sequence single, or continuous
12. Fully automatic boresight.
13. Modify control knob selector position to provide for easy use of boresight to time exposure, and for this purpose bias to automatic exposure control to set shutter wide open.
14. Incorporate burst control to provide for a short sequence of exposures actuated by a short pulse. ie. 2, 4, 6 or 8 exps. as desired.
15. Deletion of 200' magazine, ~~ie. 2, 4, 6 or 8 exposures as desired~~ <sup>1/2 sec interval.</sup>
16. Provisions for additional magazines of 100, 400 and 1000 foot capacity. 2 ea. /unit.
17. Three (3) extra sets of spare magazines (3 ea. of 100, 400, 1000 foot.)

Items which require further study as to feasibility:

1. Reduce the thickness of the front end to allow the use of threaded lens reflex units, when such units are not provided with screw rings.
2. Increase pulse rate min. 2/sec. increase, if possible, if power drain stands at original level.
3. Single tap voltage for 6 or 12 volt operation or either. Battery drain may make these forms of operation undesirable.
4. Noise reduction of sensor arm.

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Data recording added to record day (31) hour (24) and perhaps minute or 15 minute indication.

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